

ABSTRACT OF THE DISCLOSURE

An apparatus 1 for producing a composite material including ceramic hollow particles and one of aluminum and aluminum alloy pressurizes a gas feeding member 20, a molten stock vessel 30, 5 a packing 50, a forming mold 60 and an air-removal ceramic filter 80 by means of an upper pressure die 11 and a lower pressure die 12 and introduces an Ar gas thereby allowing molten aluminum 40 or molten aluminum alloy 40 to infiltrate in gaps between the plural ceramic hollow particles.